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L10	2	"20030177477"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 15:56
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1 Design and evaluation of a wide-area event notification service

◈ August 2001 **ACM Transactions on Computer Systems (TOCS),** Volur
Publisher: ACM Press

Full text available: 🖹 pdf(1.08 MB)   Additional Information: full citation, abst
                                                                citings, index ten

> The components of a loosely coupled system are typically designed to o]
> and responding to asynchronous events. An event notification service is
> independent infrastructure that supports the construction of event-based ;
> generators of events publish event notifications to the infrastructure and
> subscribe with the infrastructure to receive relevant notifications. The tw
> that should be provid ...

> **Keywords**: content-based addressing and routing, event notification, pul

2 Strategies for integrating messaging and distributed object transactions
Stefan Tai, Isabelle Rouvellou
April 2000 **IFIP/ACM International Conference on Distributed system**
Publisher: Springer-Verlag New York, Inc.
Full text available: 🖹 pdf(460.54   Additional Information: full citation, abst

<u>KB)</u>   <u>citings</u>

Messaging, and distributed transactions, describe two important models :
enterprise software systems. Distributed object middleware aims to supp
providing messaging and transaction services. But while the concept of c
transactions is well-understood, support for messaging in distributed obj
still in its early stages, and not nearly as readily perceived. Integrating m
distributed object environments, and in particula ...

3   <u>Scalable directory services using proactivity</u>
    Fabián E. Bustamante, Patrick Widener, Karsten Schwan
    November 2002 **Proceedings of the 2002 ACM/IEEE conference on Sup**
    Publisher: IEEE Computer Society Press
    Full text available: pdf(154.65 Additional Information: <u>full citation</u>, <u>abst</u>
                    <u>KB)</u>   <u>index terms</u>

    Common to computational grids and pervasive computing is the need for
    efficient, and scalable directory service that provides information about c
    environment. We argue that a directory interface that 'pushes' informatio
    changes to objects can significantly improve scalability. This paper desc
    implementation, and evaluation of the Proactive Directory Service (PDS
    supports a customizable 'proactive' mode through which ...

4   <u>A portable implementation of the distributed systems annex in Java</u>
    Yoav Tzruya, Mordechai Ben-Ari
    November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 ai**
                    SIGAda international conference on Ada SIGAda '98,
                    Issue 6
    Publisher: ACM Press
    Full text available: pdf(734.56 Additional Information: <u>full citation</u>, <u>refe</u>
                    <u>KB)</u>   <u>index terms</u>

    Keywords: Ada95, Java, distributed systems

5   <u>The Proteus multiprotocol message library</u>
    Kenneth Chiu, Madhusudhan Govindaraju, Dennis Gannon

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Sur**
Publisher: IEEE Computer Society Press
Full text available: 🗏 pdf(128.51 Additional Information: <u>full citation</u>, <u>abst</u>
                  <u>KB)</u>   <u>citings</u>, <u>index ter</u>

Grid systems span manifold organizations and application domains. Bec;
environment inevitably engenders multiple protocols, interoperability m(
crucial to seamless, pervasive access. This paper presents the design, rati
implementation of the Proteus multiprotocol library for integrating multi
protocols, such as SOAP and JMS, within one system. Proteus decouple;
from protocol code at run-time, allowing clients to incorporate separa ...

Keywords: SOAP, component, grid, middleware, multiprotocol

6 <u>Session 14: middleware support for multimedia: A pluggable service-to-se</u>
◈ <u>communication mechanism for home multimedia networks</u>
Jin Nakazawa, Hideyuki Tokuda
December 2002 **Proceedings of the tenth ACM international conferenc(**
Publisher: ACM Press
Full text available: 🗏 pdf(436.61 Additional Information: <u>full citation</u>, <u>abst</u>
              <u>KB)</u>

This paper proposes a pluggable service-to-service (S2S) communicatio1
middleware for home networks, called Virtual Networked Appliance (V]
the architecture, service description method and the plug-gable S2S com
mechanism are separated in an orthogonal way. Through the separation,
solved problems of home networks on which users have to operate multi
middleware technologies simultaneously: middleware fragmentation pro

7 <u>Work in progress papers: GlobalCom: a unified messaging system using s}</u>
<u>asynchronous forms</u>
Declan Barber
June 2002 **Proceedings of the inaugural conference on the Principles ar**
        programming, 2002 and Proceedings of the second worksho|
        representation engineering for virtual machines, 2002 PPPJ
Publisher: National University of Ireland
Full text available: 🗏 pdf(332.19 Additional Information: <u>full citation</u>, <u>abst</u>

KB)

GlobalCom is an applied project that aims to provide an internet-based u
system. for the global enterprise. The need for GlobalCom arose from th
concerned with the development of groupware to enable a globally distri
manage a crisis. GlobalCom's core functionality includes the ability to c
time, or asynchronously, using communications means such as Chatroon
SMS messaging, Email, Telephony and Voicemail and to av ...

8 Data transfer between Java Applets and legacy APL systems

B. Amos, G. Disney, D. Sorrey

January 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the con
knowledge share success APL '97,** Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(843.73 KB) Additional Information: full citation, abst

The rise of Internet technologies (particularly Java) provides many bene1
development and deployment of user interfaces. In many cases, however
system is behind the times: Internet hostile, no object orientation, etc. H(
transferred between the new generation front end and the old generation
compromising the strengths or integrity of either? This paper discusses t1
customised Java data serialisation to achieve this goal against a lar ...

9 Hermes: a notification service for digital libraries

D. Faensen, L. Faultstich, H. Schweppe, A. Hinze, A. Steidinger

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference o1**

Publisher: ACM Press

Full text available: pdf(183.89 KB) Additional Information: full citation, abst
                                                            citings, index ten

The high publication rate of scholarly material makes searching and br o
inconvenient way to keep oneself up-to-date. Instead of being the active
access, researchers want to be notified whenever a new paper in one's re:
published.While more and more publishing houses or portal sites offer n
this approach has several disadvantages. We introduce the Hermes alerti:
that integrates a variety of differen ...

Keywords: collaborative filtering, electronic publishing, recommender s

10 Software engineering and middleware: a roadmap

Wolfgang Emmerich

May 2000 **Proceedings of the Conference on The Future of Software E**
Publisher: ACM Press

Full text available: pdf(1.34   Additional Information: <u>full citation</u>, <u>refe</u>
                MB)   <u>index terms</u>

11 StratOSphere: mobile processing of distributed objects in Java

Daniel Wu, Divyakant Agrawal, Amr El Abbadi

October 1998 **Proceedings of the 4th annual ACM/IEEE international ‹**
                Mobile computing and networking
Publisher: ACM Press

Full text available: pdf(1.38   Additional Information: <u>full citation</u>, <u>refe</u>
                MB)   <u>index terms</u>

12 A scaleable event infrastructure for peer to peer grids

Geoffrey Fox, Shrideep Pallickara, Xi Rao

November 2002 **Proceedings of the 2002 joint ACM-ISCOPE conferen‹**
Publisher: ACM Press

Full text available: pdf(400.08 Additional Information: <u>full citation</u>, <u>abst</u>
                KB)   <u>index terms</u>

In this paper we propose a peer-to-peer (P2P) grid comprising resources
static clients, high-end resources and a dynamic collection of multiple P‹
investigate the architecture of the messaging and event service that will ‹
hybrid environment. We designed a distributed publish-subscribe system
for XML specified messages. NaradaBrokering interpolates between cen
like JMS (Java Message Service) and P2P environments. Her ...

Keywords: JXTA, P2P systems, event distribution systems, grid comput

13 On objects and events

Patrick Th. Eugster, Rachid Guerraoui, Christian Heide Damm
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM !
conference on Object oriented programming, systems, la
applications OOPSLA '01,** Volume 36 Issue 11
Publisher: ACM Press
Full text available: pdf(308.58 Additional Information: <u>full citation, abst</u>
KB)   <u>citings, index ter</u>

This paper presents linguistic primitives for publish/subscribe programm
and objects. We integrate our primitives into a strongly typed object-orie
through four mechnisms: (1) serialization, (2) multiple subtyping, (3)clo:
deferred code evaluation. We illustrate our primitives through Java, shov
overcome its respective lacks. A precompiler transforms statements base
publish/subscribe primitives into calls to specifically generated ...

14 <u>The Jini architecture: dynamic services in a flexible network</u>
Ken Arnold
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design a**
Publisher: ACM Press
Full text available: pdf(62.17   Additional Information: <u>full citation, refe:</u>
KB)   <u>index terms</u>

Keywords: Java, Jini, distributed computing, distribution, networks

15 <u>State-of-the-art presentations: Distributed component technologies and the</u>
<u>engineering implications</u>
Wolfgang Emmerich
May 2002 **Proceedings of the 24th International Conference on Softwa**
Publisher: ACM Press
Full text available: pdf(1.27   Additional Information: <u>full citation, abst</u>
MB)   <u>citings, index ter</u>

In this state of the art report, we review advances in distributed compone
such as the Enterprise Java Beans specification and the CORBA Compo
assess the state of industrial practice in the use of distributed component:
architectural styles for whose implementation distributed components ha

successfully. We review the use of iterative and incremental developmer
notion of model driven architecture. We then assess the st ...

16 Session 10C: information sharing: Channeled multicast for group commun
Paolo Busetta, Antonia Donà, Michele Nori
July 2002 **Proceedings of the first international joint conference on Au
and multiagent systems: part 3**
Publisher: ACM Press
Full text available: pdf(153.01 Additional Information: full citation, abst
                     KB)   citings, index ter

Multi-agent systems can benefit from the possibility of broadcasting mes
audience. The audience may include overhearing agents which, unknow1
conversations and, among other things, pro-actively send suggestions. C1
agent communication languages however lack adequate support for broa
defines the requirements for a form of broadcast that we call *channeled i*
distinguishing features include the ability to di ...

Keywords: agent communication languages, auction protocols, broadca:
communications, multicasting, overhearing

17 Abstracting remote object interaction in a peer-2-peer environment
Patrick Thomas Eugster, Sebastien Baehni
November 2002 **Proceedings of the 2002 joint ACM-ISCOPE conferen(**
Publisher: ACM Press
Full text available: pdf(202.02 Additional Information: full citation, abst
                     KB)   index terms

Leveraged by the success of applications aiming at the "free" sharing of
the paradigm of peer-to-peer (P2P) computing has been devoted substan1
recently. This paper presents an abstraction for remote object interaction
environment, called borrow/lend (BL). We present the principles underl}
abstraction, and its implementation in Java. We contrast our abstraction '
abstractions for distributed programming such as the remote me ...

Keywords: Java, abstraction, borrow/lend, peer-to-peer, type

18 Development routes for message passing parallelism in Java

J. A. Mathew, H. A. James, K. A. Hawick

June 2000 **Proceedings of the ACM 2000 conference on Java Grande**
Publisher: ACM Press

Full text available: pdf(775.87 KB)   Additional Information: full citation, refe index terms

Keywords: JUMP, Java, Java Grande, JavaSpaces, Jimi, MPI, PJMPI, m

19 Software engineering tools and environments: a roadmap

Harold Ossher, William Harrison, Peri Tarr

May 2000 **Proceedings of the Conference on The Future of Software E**
Publisher: ACM Press

Full text available: pdf(1.86 MB)   Additional Information: full citation, refe index terms

Keywords: integration, process-centered software engineering environm support environments, separation of concerns, software engineering envi

20 Conservative simulation: Conservative simulation using distributed-shared

Y. M. Teo, Y. K. Ng, B. S. S. Onggo

May 2002 **Proceedings of the sixteenth workshop on Parallel and distri**
Publisher: IEEE Computer Society

Full text available: pdf(662.60 KB)
Publisher Site   Additional Information: full citation, abst

This paper focuses on conservative simulation using distributed-shared r processor communication. JavaSpaces, a special service of Java Jini, pro persistent memory for simulation message communication among proce: benchmark programs written using our SPaDES/Java parallel simulation The first program is a linear pipeline system representing a loosely-coup

The PHOLD program represents a strongly-connected closed system. Ex

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Hsiu-Hui Lee; Chun-Hsiung Tseng;
Parallel and Distributed Computing, Appl
PDCAT 2003, Proceedings of the Fourth I
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☐ **2. Design and implementation of a bridge**
service and the Java message service
Aleksy, M.; Schader, M.; Schnell, A.;
System Sciences, 2003. Proceedings of the
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Yoneki, E.; Bacon, J.;
Distributed Computing Systems Worksho
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